

POWER FOR SMELTER

Electricity Now Operates Big Pennsylvania Plant.

TURNED ON YESTERDAY

SMELTER WILL USE FIVE HUNDRED HORSE POWER.

Current Is Taken a Distance of Six Miles Over Three Wires—Aluminum Used in Place of Copper Wires. Big Cottonwood Has Power to Spare.

The Pennsylvania smelter at Sandy has taken the initial step in its new life, and the substitution of electricity for steam power throughout its entire plant. Current was turned on at the generating station in Big Cottonwood canyon late yesterday afternoon, and transmitted by means of electric cables over the six intervening miles to the transformers and motors in the smelting works. The test was successful from the start, and last night a forty-horse power motor was operating an ore roaster, and a fifty-horse power motor an ore crusher without a hitch.

Motors capable of developing about 500-horse power in all are installed at the smelter, and will begin their daily grind as soon as connections are made and the fluid turned into the plant. The distance from the generating plant in the Big Cottonwood canyon to the smelter is a trifle over six miles. The energy in the shape of a three-phase alternating current, is transmitted through the medium of three No. 4 aluminum wires, at a pressure of 12,000 volts, and the current is reduced by static transformers to 450 volts three-phase alternating current, and is then fed to the Westinghouse induction motors, which operate at 450 volts.

Aluminum Instead of Copper.

The use of aluminum wire for electrical transmission purposes is a comparatively new departure, and has been used with success for some months between Mercer and Sunshine, and is brought about by the high price of copper. Aluminum wire has been used of equal cross-sectional area, but its cost is considerably less. The loss and the resistance to the current is of the same size of the wire. That is why three No. 4 wires are used.

Capacity of Generators.

The generating plant at the canyon has a total capacity of 500 horse power. Of this amount about 500 horse power is used to operate the Salt Lake City Railway company, between 100 and 200 horse power to operate the city street cars, and the remainder is available for use as lighting, fan motors, ventilators and elevators. The 500 additional to be furnished to the smelter will leave a large surplus of power available for other channels.

SUNDAY CLOSING BILL KILLED

THE CITY ATTORNEY DECLARED IT UNCONSTITUTIONAL.

City Council, Therefore, Decided Not to Pass the Measure—No Saturday Half-holiday.

The proposed ordinance requiring clothing and furnishing goods stores to remain closed on Sundays, as petitioned for by the Retail Clerks' association and the federated tradesmen, was given a death blow in the city council today.

A few weeks ago the council referred the ordinance to the attorney for an opinion, and last evening the corporation counsel submitted that the bill should not be passed. The reason given is that it is not impartial, fair and general, as it would be unreasonable and unjust to make, under the circumstances, an act which would discriminate against one class of business and favor another. "Ordinances which have this effect cannot be sustained," continued the opinion, "and special and unreasonable discrimination in particular cases is not to be allowed. The powers vested in municipal corporations should, as far as practicable, be exercised by ordinance general in their nature and impartial in their operation."

Because Councilman Robertson was so highly incensed by the legal fight that the proposed ordinance would stand the test of constitutionality, he wanted it to pass over the objection of the attorney. He was, however, overruled by the council.

Callister expressed the belief that the city attorney's opinion was well founded, and moreover, he understood the point that it would be an unwarranted discrimination to let candy and cigar stores to do business on the Sabbath and deny the privilege to vendors of soda, coffee and fruit.

With considerable vigor Diel disagreed with his two Republican colleagues, and declared his opposition to Sunday blue laws in any form.

Allen announced himself in favor of closing all unnecessary places of business, and moreover, he understood the point that it would be an unwarranted discrimination to let candy and cigar stores to do business on the Sabbath and deny the privilege to vendors of soda, coffee and fruit.

Robertson's resolution to give the office employees in the city government a holiday Saturday afternoon that had been adopted by the council, was taken up, discussed and defeated, only the mover of the resolution voting for it. The opposition to the resolution was based upon the theory that the half holiday would be a discrimination against the other employees of the city, who would not be favored by the operation of the resolution.

"Hello, Bill," it's right—Bill's Purple Day. Satisfactory.

DENVER AND RETURN, \$20.00.

On Rio Grande Western Railway.

On August 6 and 7, the Rio Grande Western railway announces rates of \$20 to Denver and return. Trains depart at 3:30 a. m. and 3:05 p. m. Through Pullman Palace and ordinary sleepers. Free reclining chair cars. Perfect dining car service. Cool ride through the Rockies. Ticket office, Daily block corner.

Did you ever stop to think what great value in the way of entertainment you get at Saitair for only 25c?

A skit dancing dog, a dog that turns somersaults, a dog that dances the waltz, a dog that only a part of the show at Saitair, Free.

MESSANGER BOYS MAY STRIKE

WESTERN UNION LADS DEMAND A RAISE.

Declare They Will Quit if Demands Are Not Granted and Go On a Strike.

WORKMEN'S DAY AT SALT LAKE

Following the example of the New York and Boston messenger boys, the local Western Union messenger boys declare they are going on a strike if certain demands of theirs are not acceded to by the management. They are at present getting a cent and a half on each telegram delivered, and will ask for two cents. On district messenger calls they receive 30 per cent, and want 50 per cent. Their ultimatum will be presented to Manager Demarest this morning in the form of a petition for a raise, and, if not granted, the boys say they will quit work tomorrow morning and will see that no "reads" take their places. Things will probably be interesting in the vicinity of the Western Union office when the two sides clash. There are about eighteen boys employed by the local office.

BIG CROWD IN SPITE OF THE STORM.

Furious Gale Drove Excursionists In to Lower Pavilion—Programme of Sports and Dancing Continues.

Neither the rain that fell nor the gale that blew at Saitair yesterday was allowed to interfere with the pleasure of the A. O. U. W. excursionists that went here to enjoy the fair. The programme of sports and dancing continued in the lower pavilion, and the crowd was as large as ever.

As the 415 train from town crossed the bridge a terrific wind storm, with some rain, came up, and until some time after the crowd had secured shelter at the pavilion it looked as though the Aug. 4 excursion of last year might be repeated.

There was no damage done, however, and the only result of the storm was a slightly diminished evening attendance. About 2,500 people visited the resort, but the management had made plans to care for nearly 4,000.

Some of the numbers on the programme were necessarily abandoned because of the wind. The others were much enjoyed.

The general committee of the A. O. U. W. that had charge of the outing consisted of Messrs. J. H. Gray, C. A. Redfield, Joseph D. Clark, Richard Papworth, James H. G. Gray, J. W. Peterson, Albert H. Gray, J. W. Taylor, Mrs. J. C. Taylor, Miss Julia Barrows and Mrs. E. Walsh.

Sports and Contests.

In the boat race, Albert Merrill and Marion were entered, the former being the victor in the contest. The swimming race for men was won by James Leatham, John Taylor being his opponent.

The swimming race for ladies was won by Miss Taylor, Mrs. J. C. Taylor being her opponent. The race was won by a narrow margin.

Best water polo team was the team from the University of Utah. The game was won by a narrow margin.

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GIFTS OF STEELS

Boys Will Practically Be Given \$5,300 In Cash.

Use of Liberty Park Granted.

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THE SALT LAKE HERALD: WEDNESDAY, AUGUST 2, 1899

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